

Fig. 1

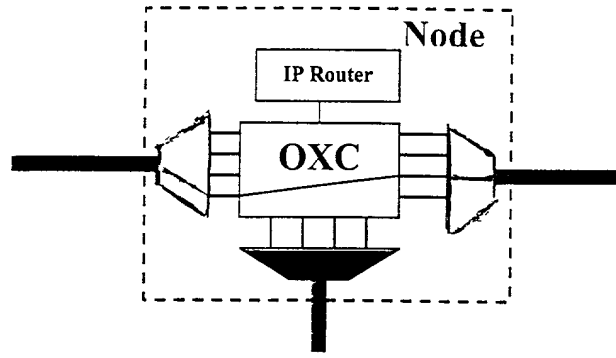


Fig. 2

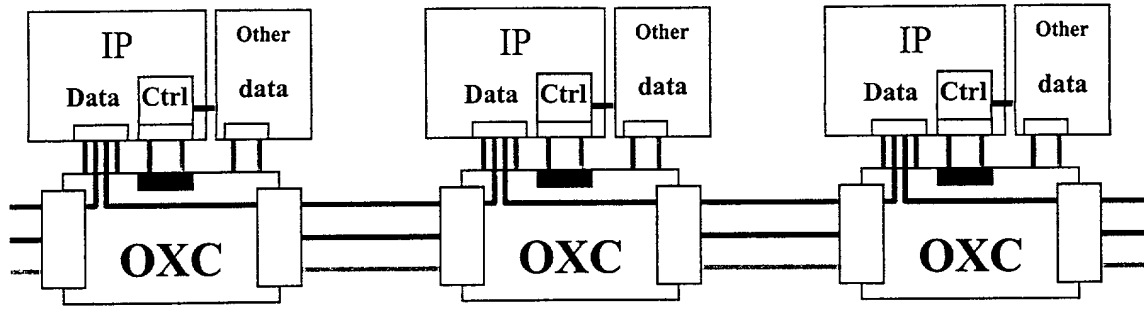


Fig. 3



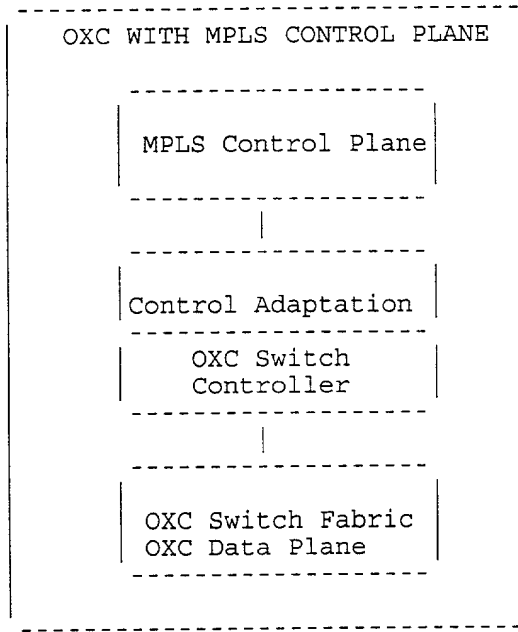


Fig. 5



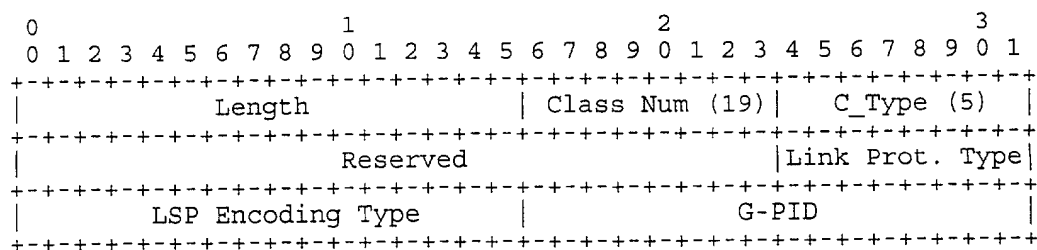


Fig. 7

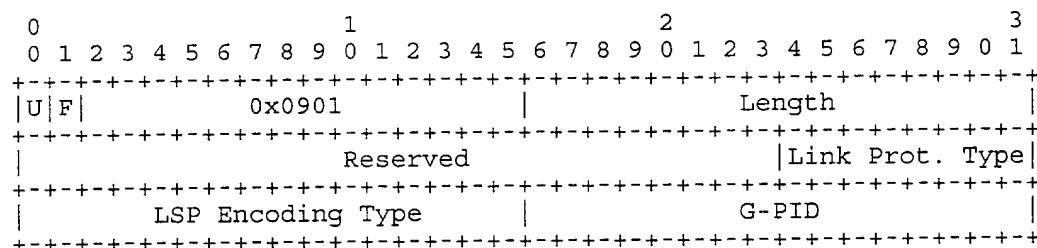


Fig. 8

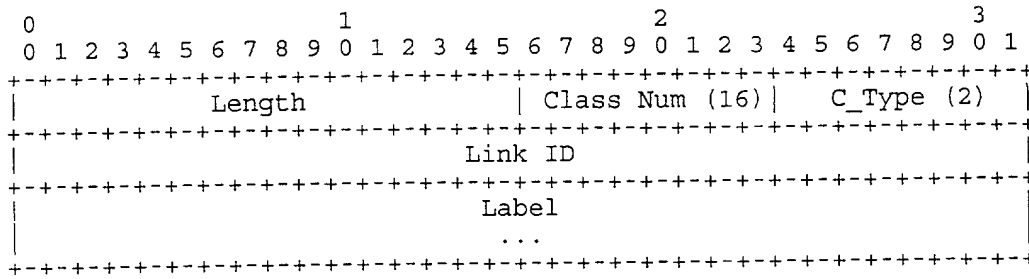


Fig. 9

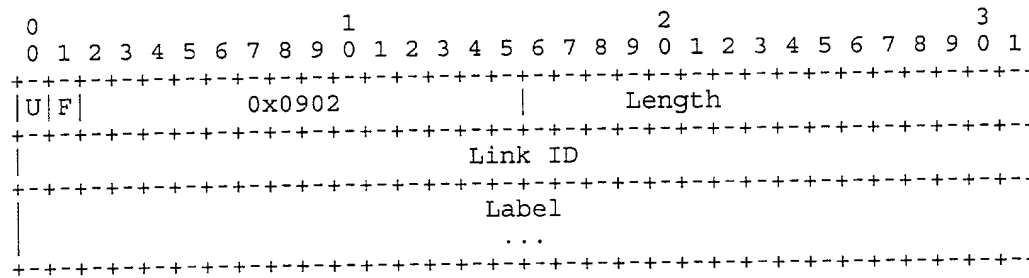


Fig. 10





0										1										2										3									
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1								
+--+																																							

Fig. 12

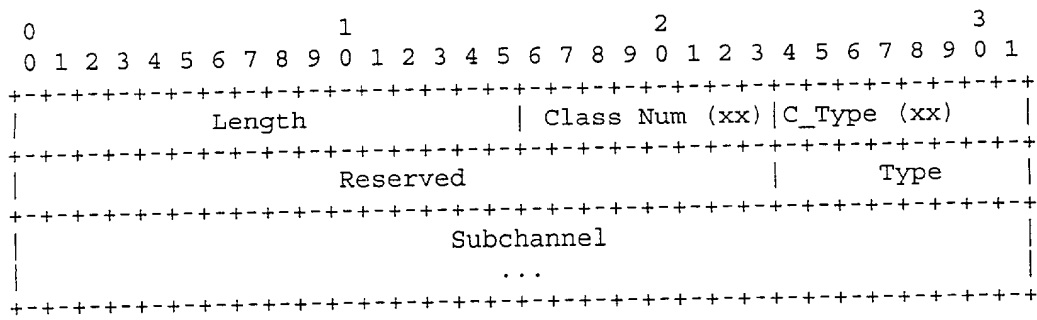


Fig. 13

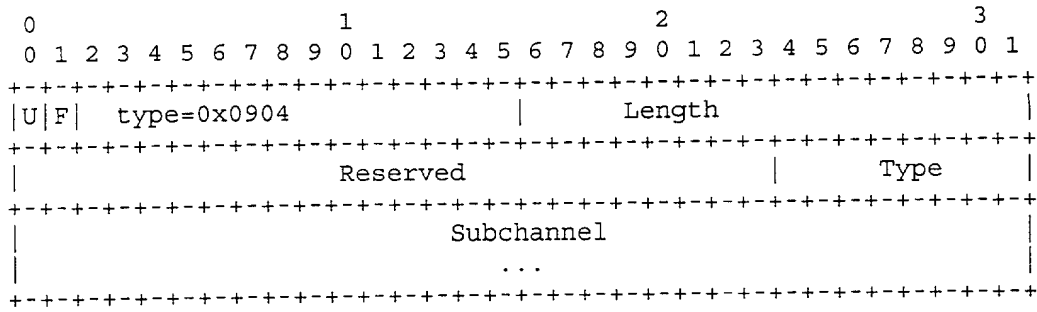


Fig. 14





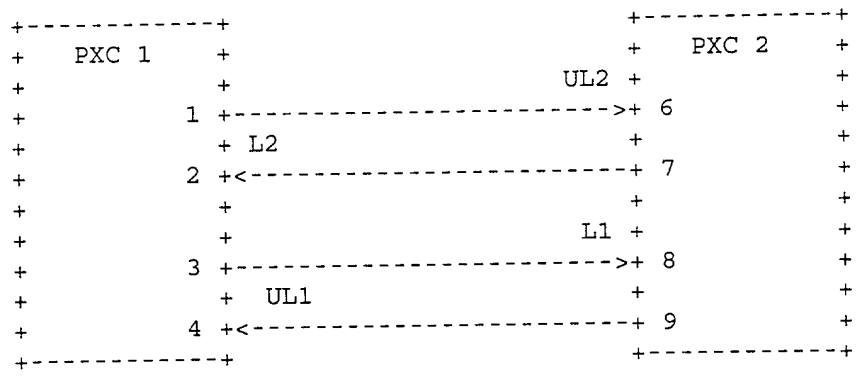


Fig. 17

TOP SECRET

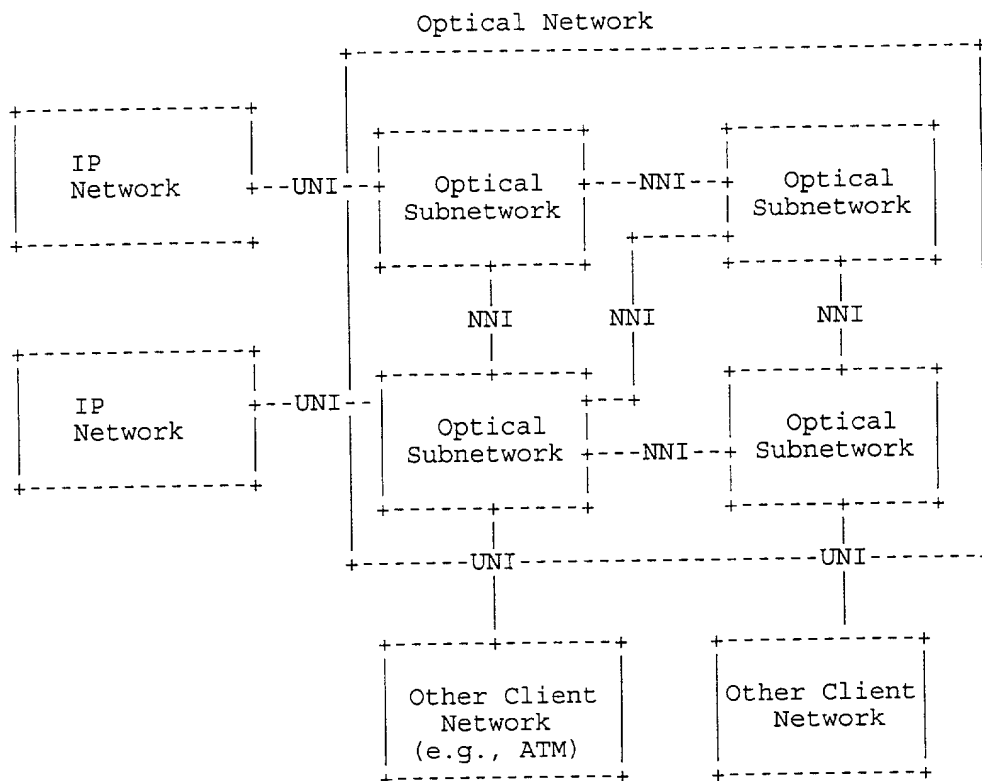
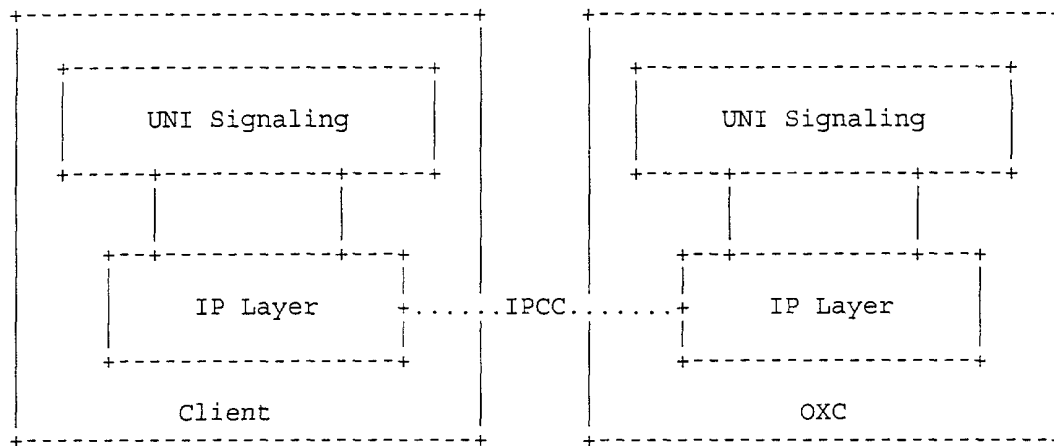


Fig. 18





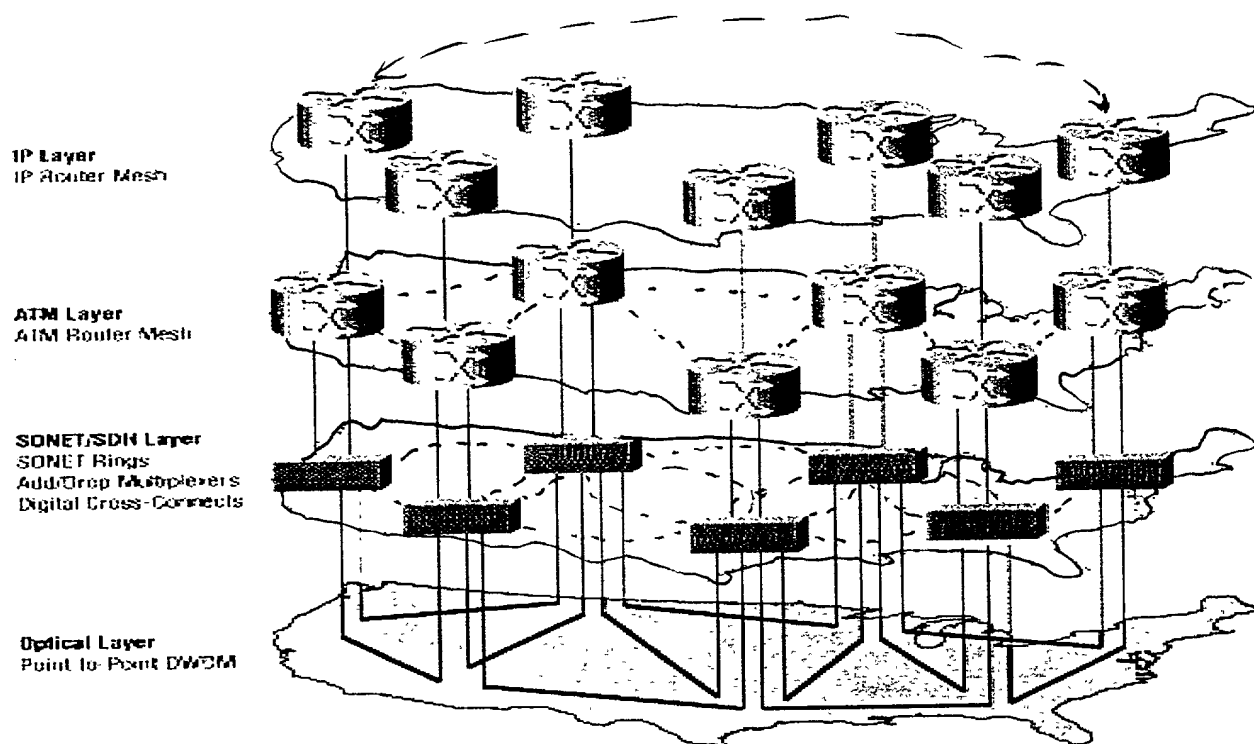


FIG. 20

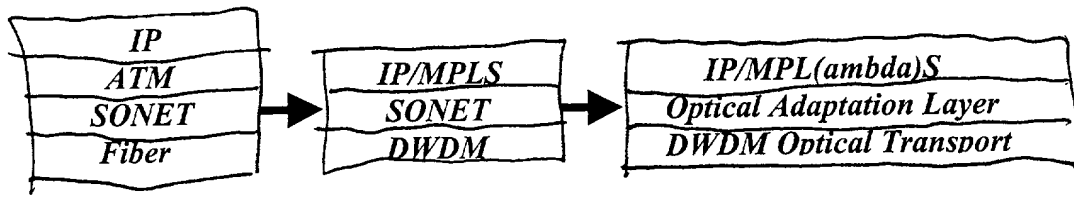


Fig. 21

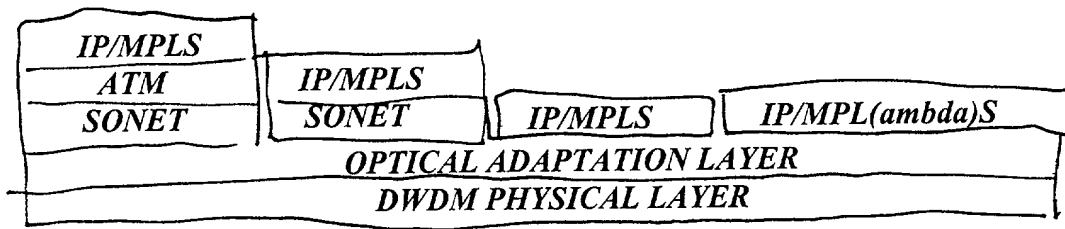
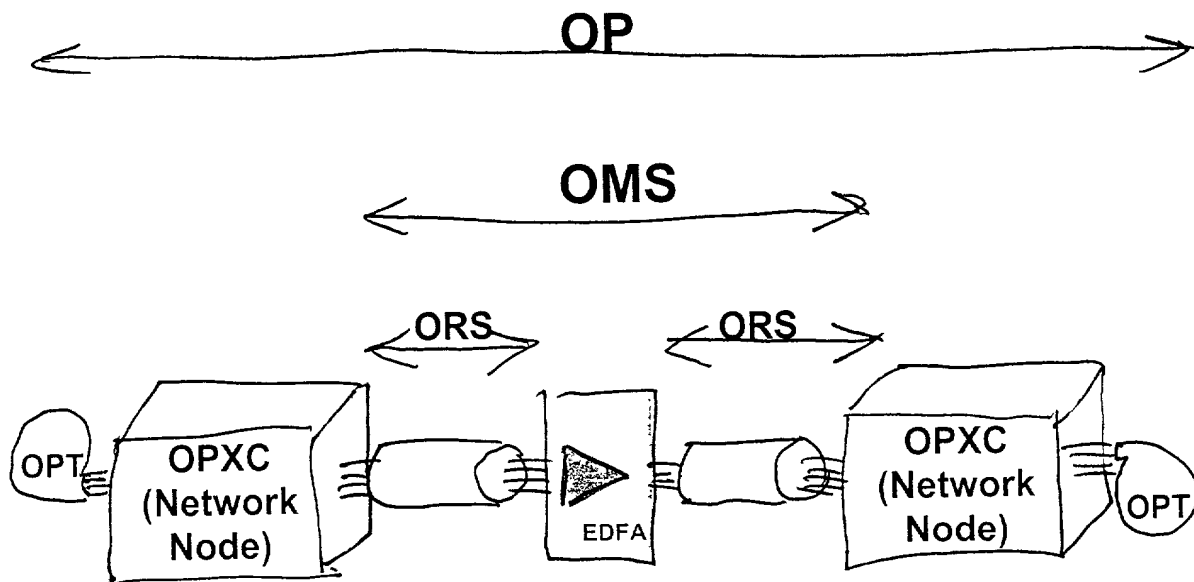


Fig. 22



OP -- Optical Path  
 OMS -- Optical Multiplexing Section  
 ORS -- Optical Repeater Section  
 OPT -- Optical Path Termination  
 OPXC -- Optical Path Cross-Conect

Fig. 23

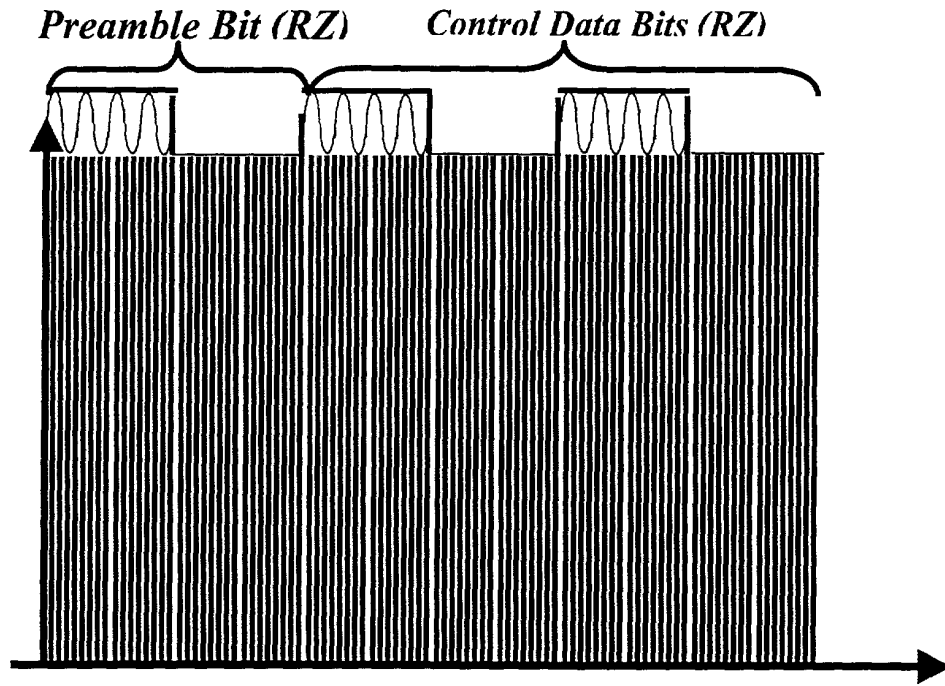


Fig. 24

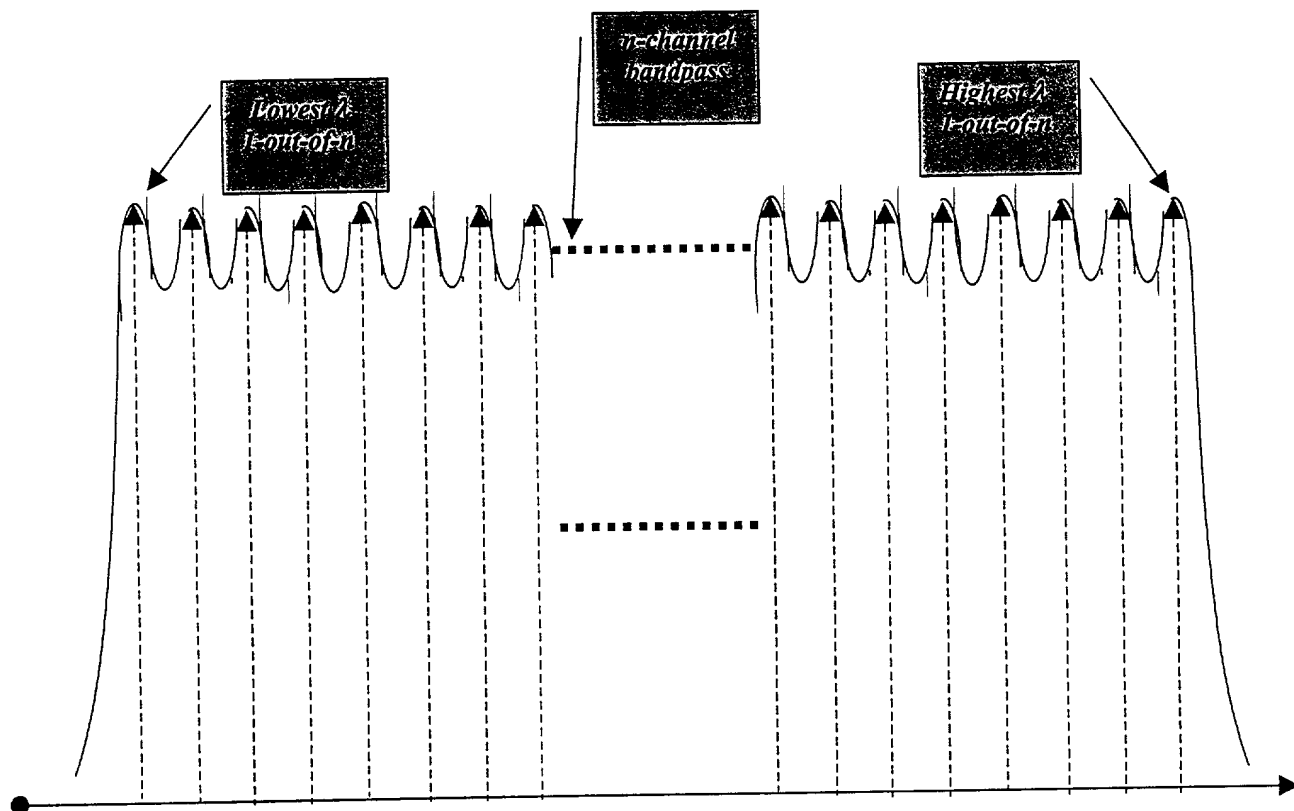


FIG 25

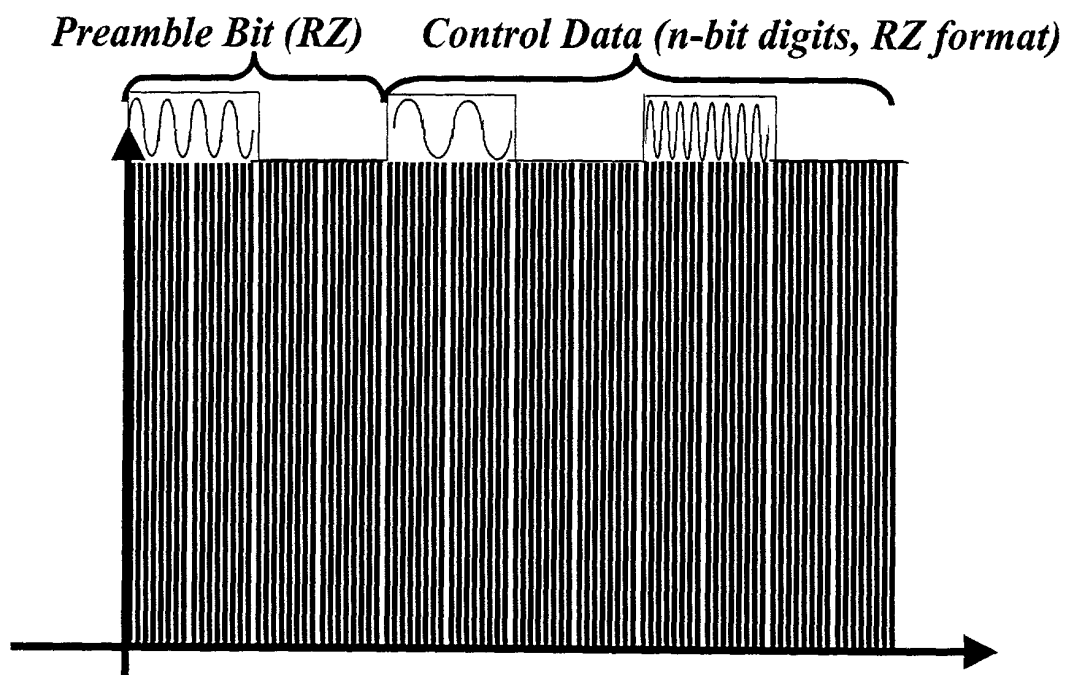


FIG. 26



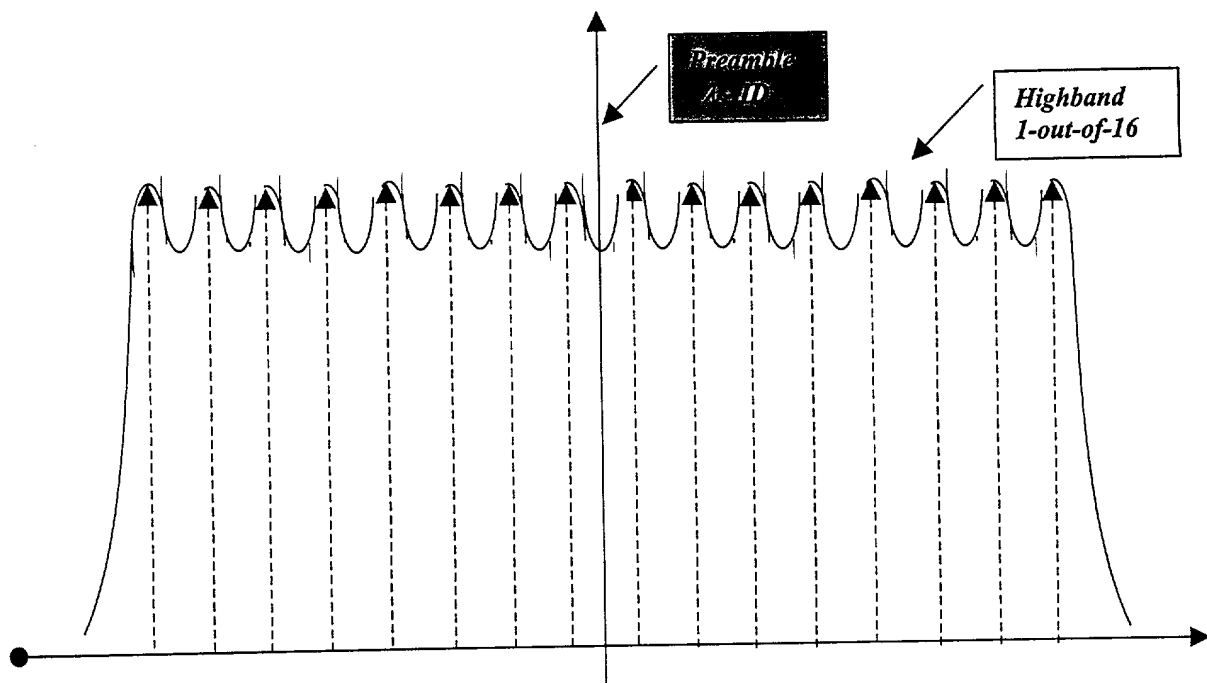


FIG. 27

FIG. 28

FIG. 29

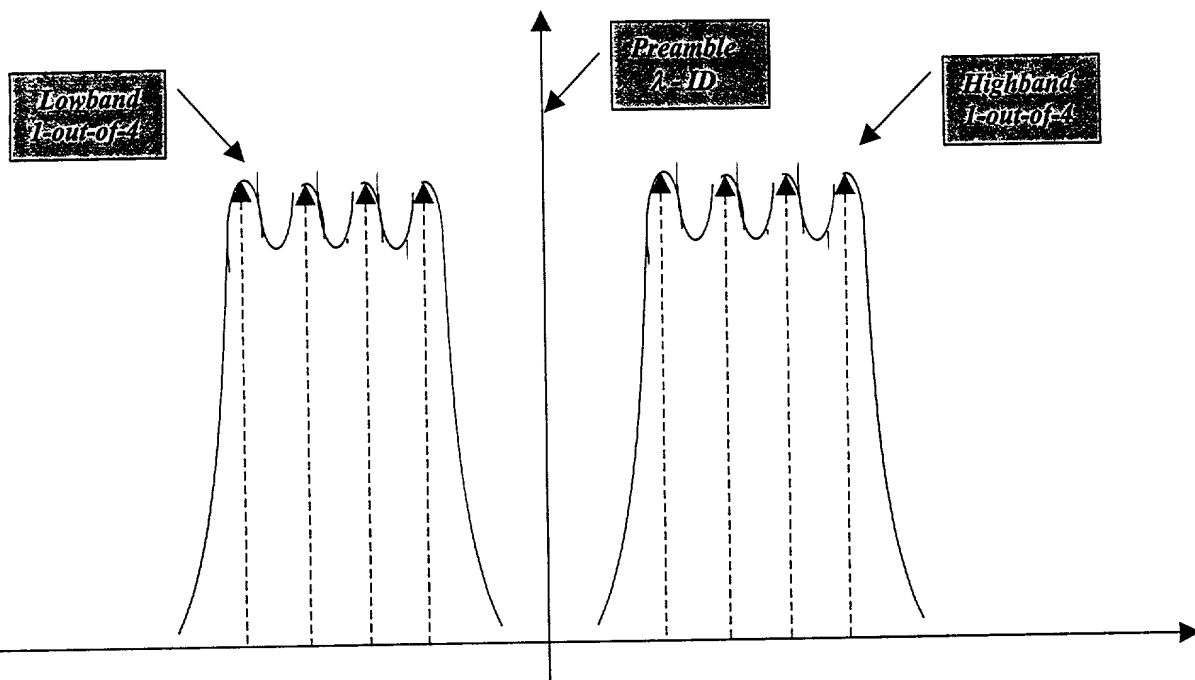


FIG. 29

	120.95kHz	133.65kHz	147.75kHz	163.35kHz
80.15kHz	0000	0001	0010	0011
88.55kHz	0100	0101	0110	0111
97.98kHz	1000	1001	1010	1011
108.21kHz	1100	1101	1110	1111

FIG. 30

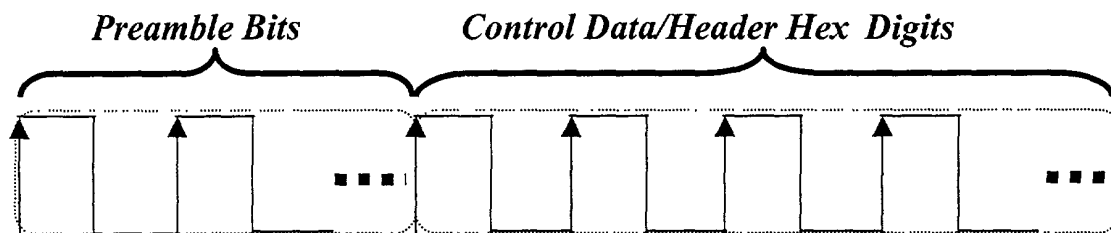


FIG. 31



FIG. 32

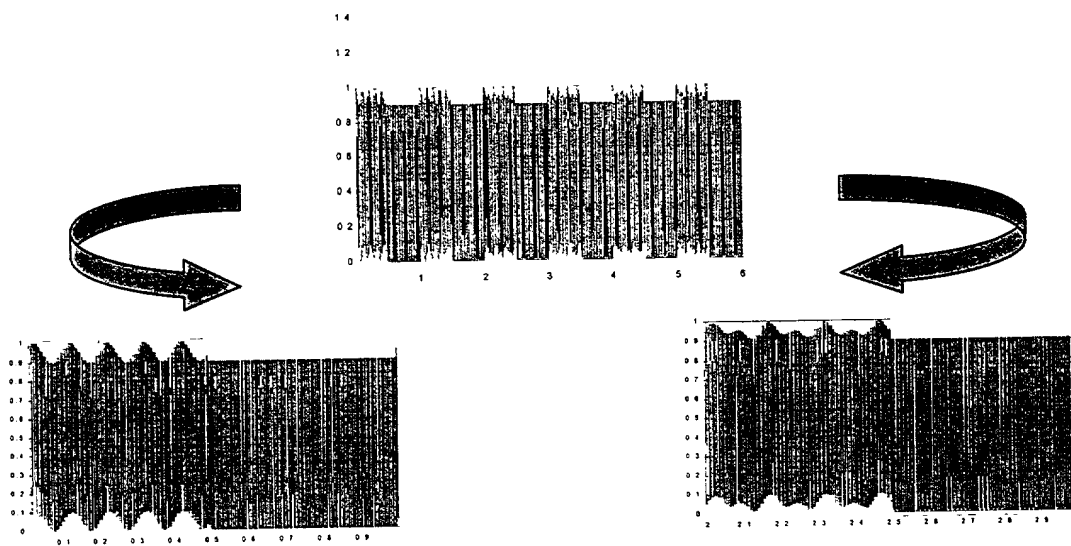
[illegible]

FIG. 33

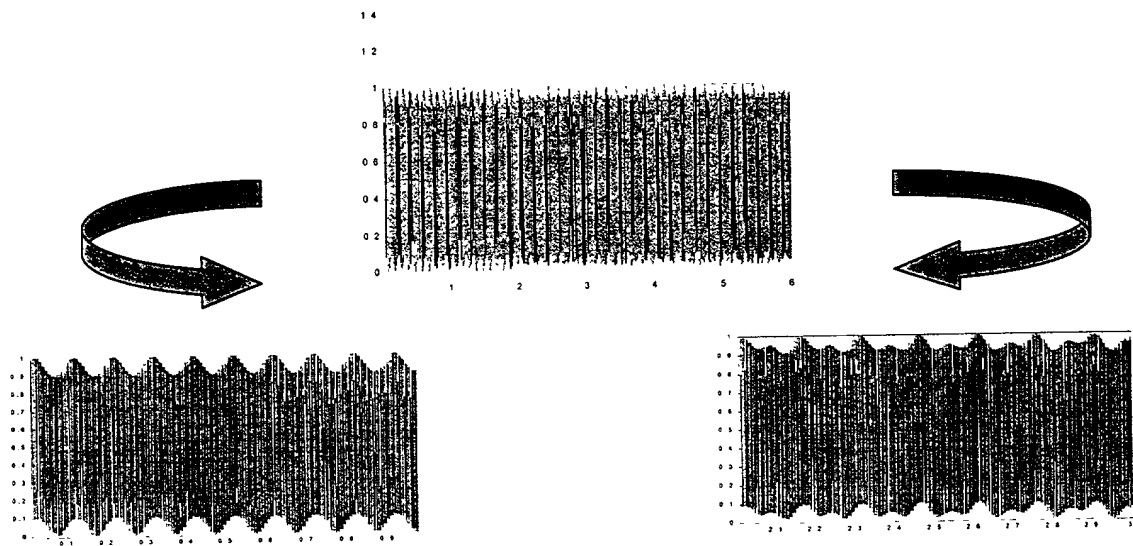


FIG. 34

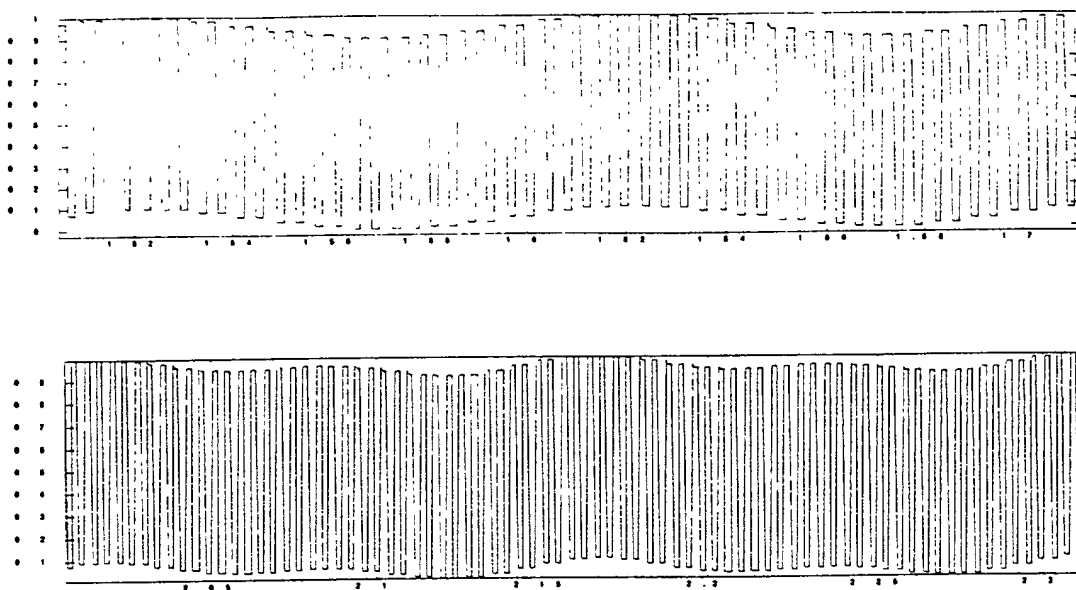


FIG.35



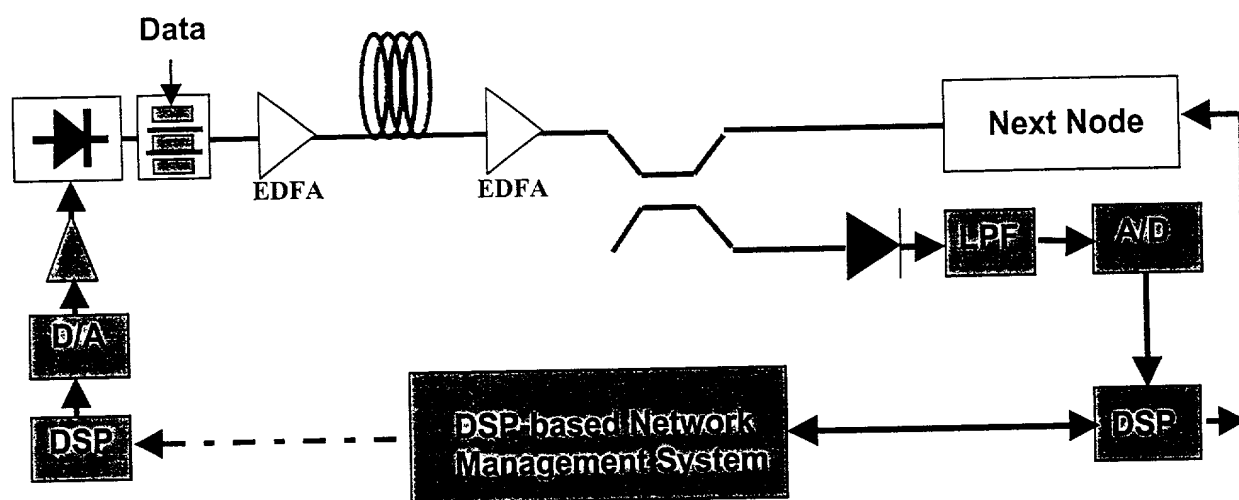


FIG. 36

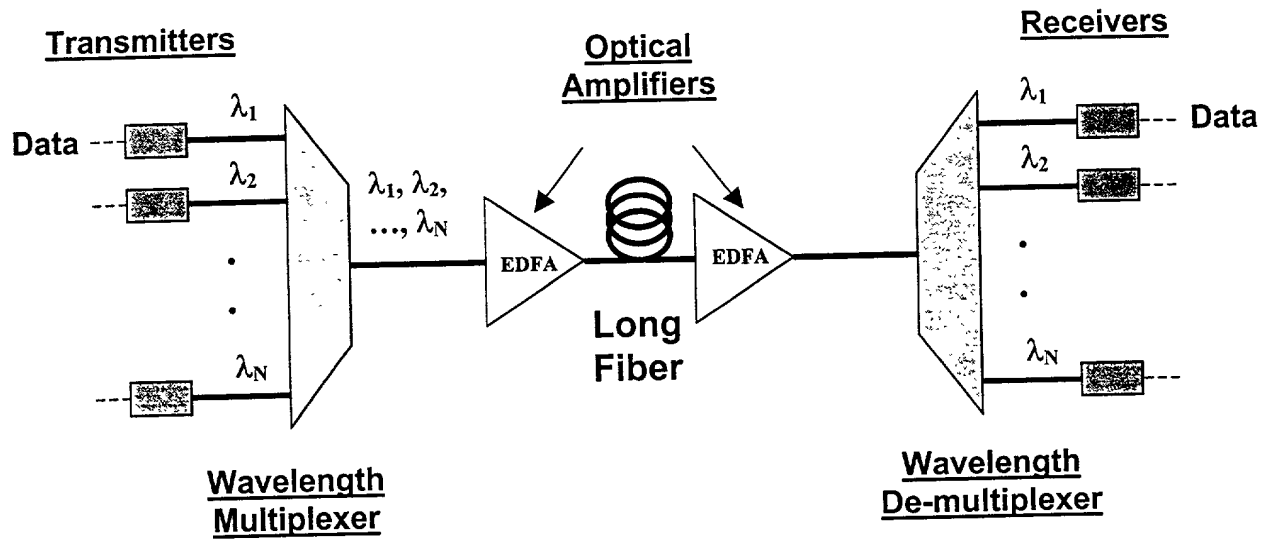


FIG. 37

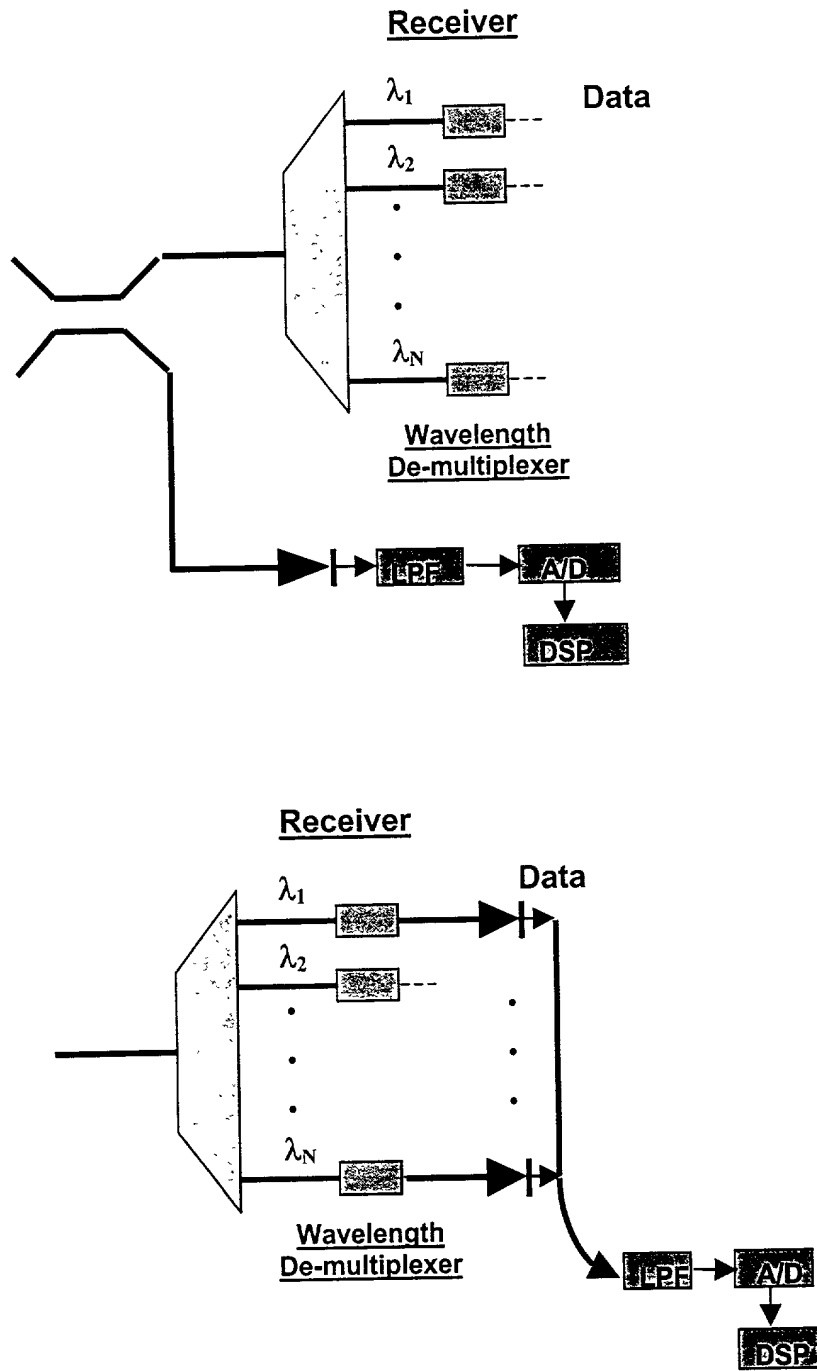


FIG. 38

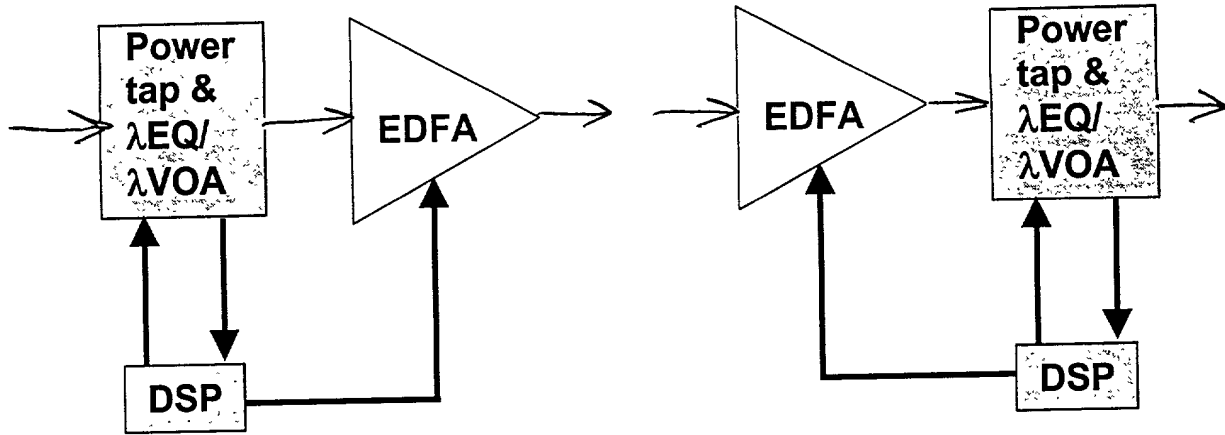


FIG. 39

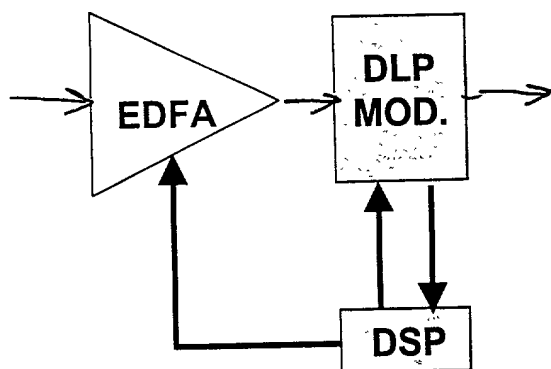


FIG. 40

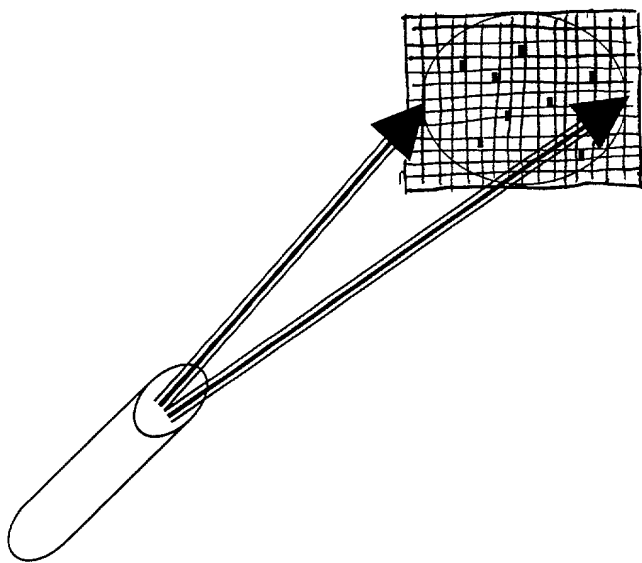


FIG. 41

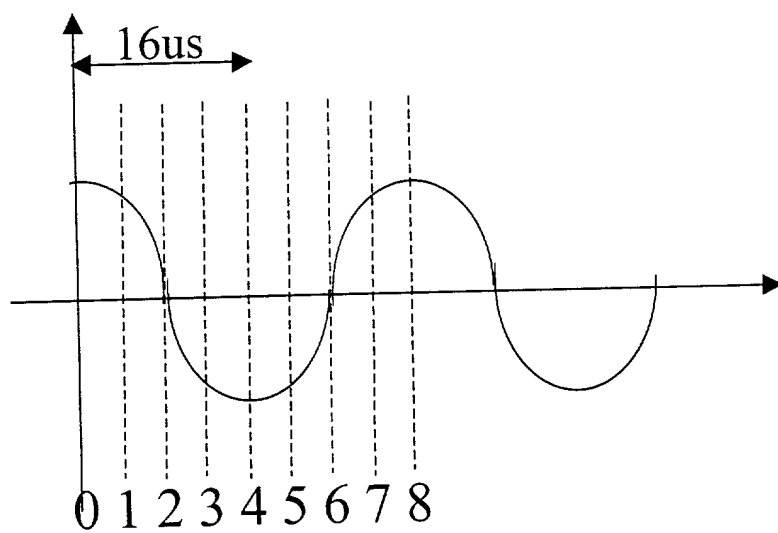


FIG. 42

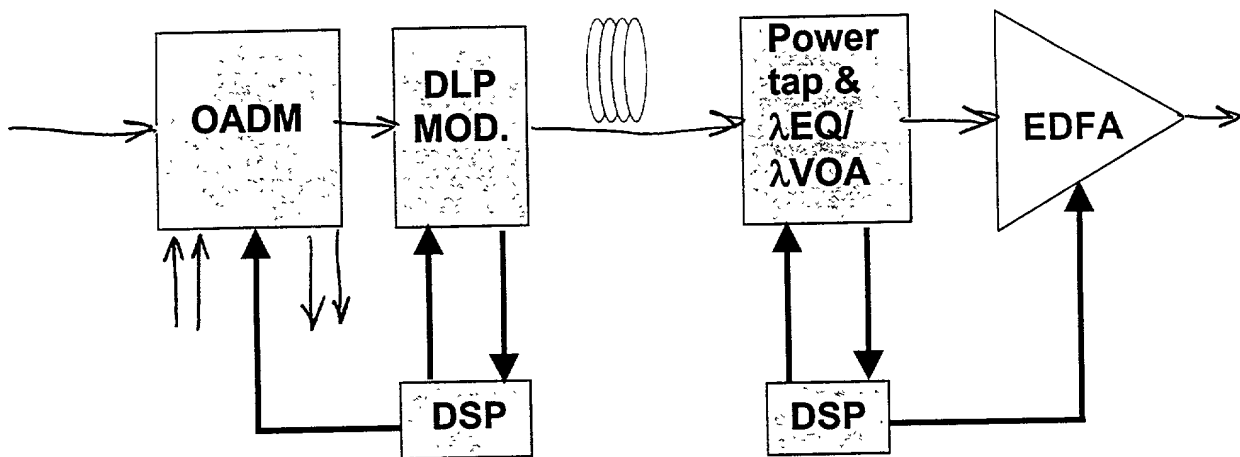


FIG.43



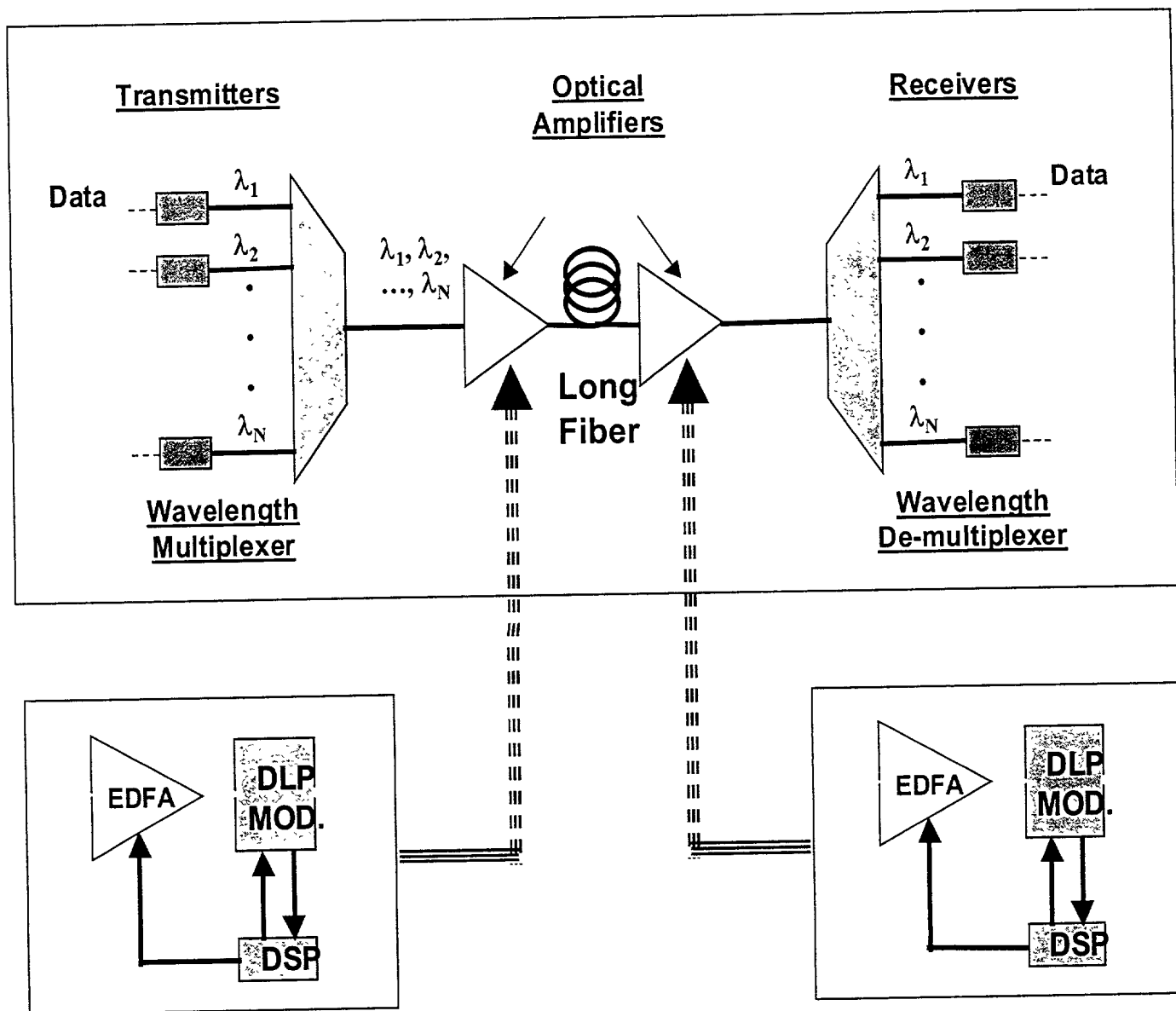


FIG. 44

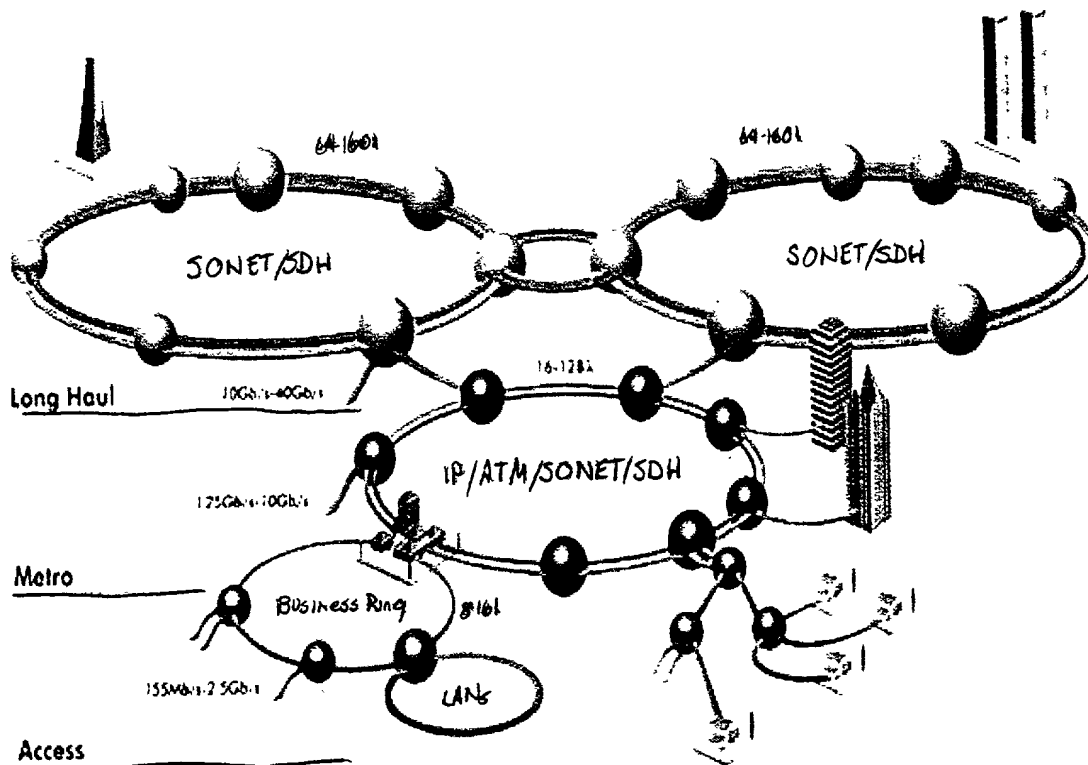


FIG. 45

FIG. 45

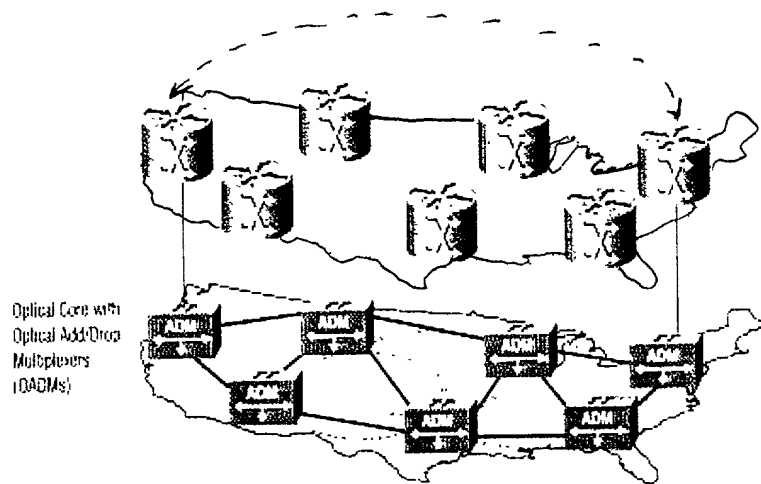


FIG. 46

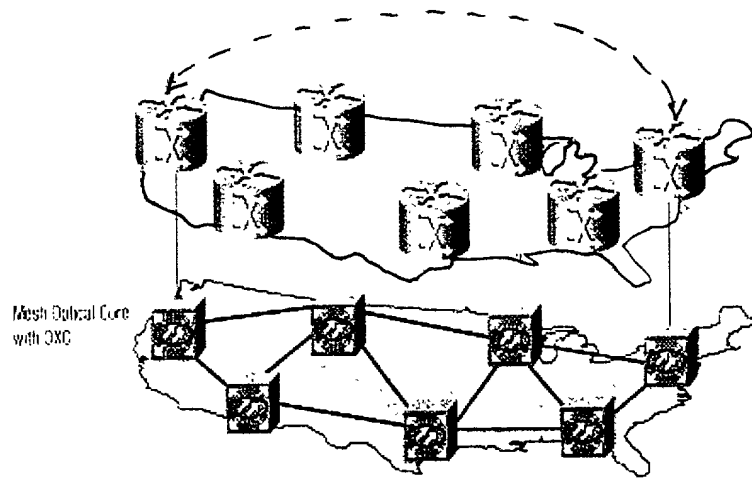


FIG. 47

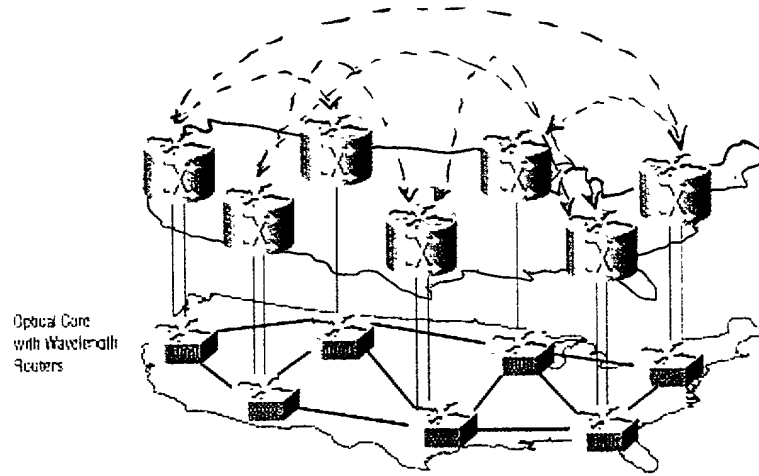


FIG. 4B

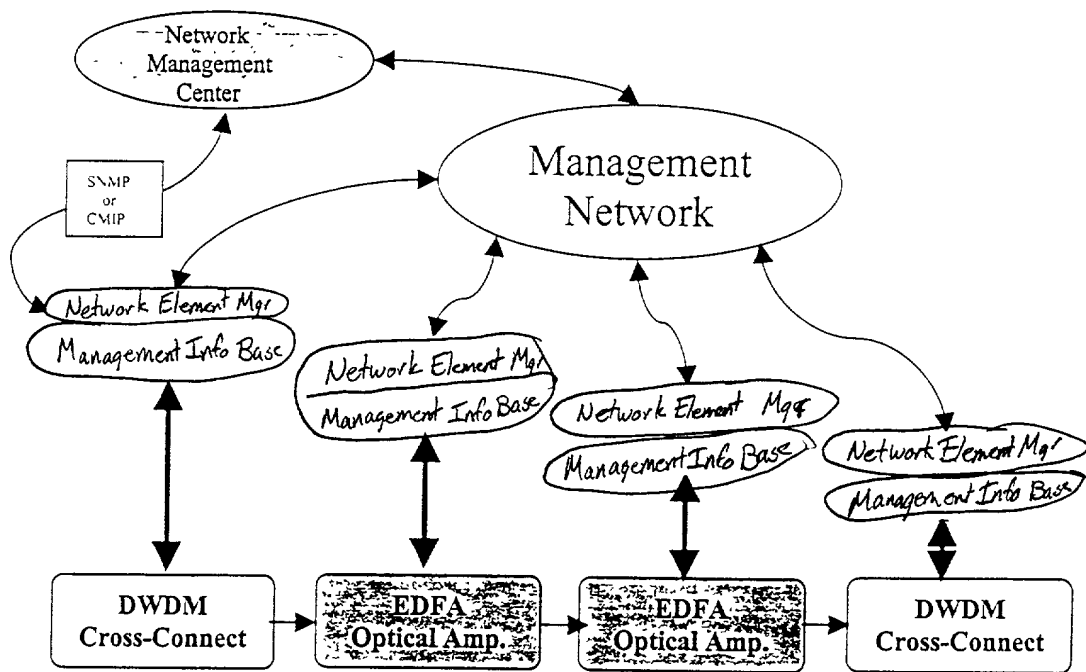


FIG. 49

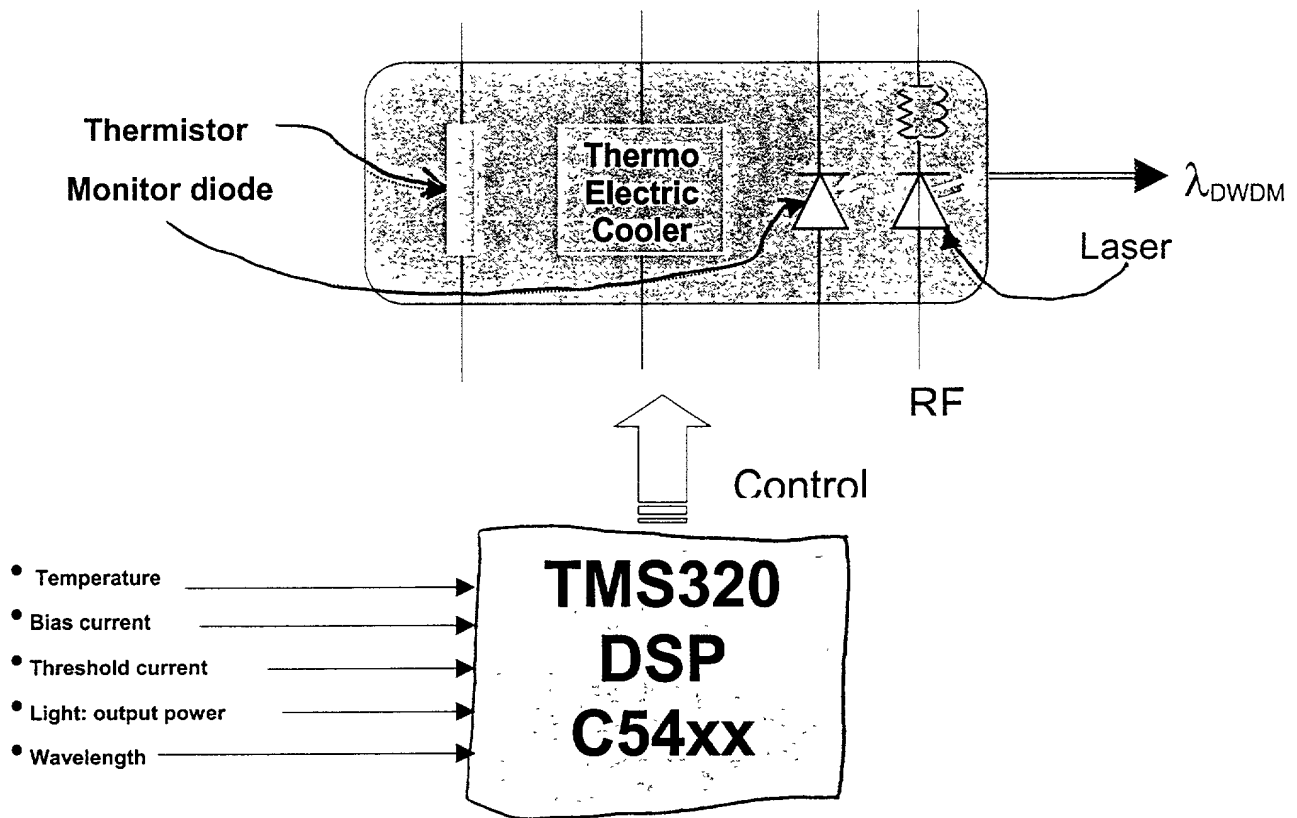
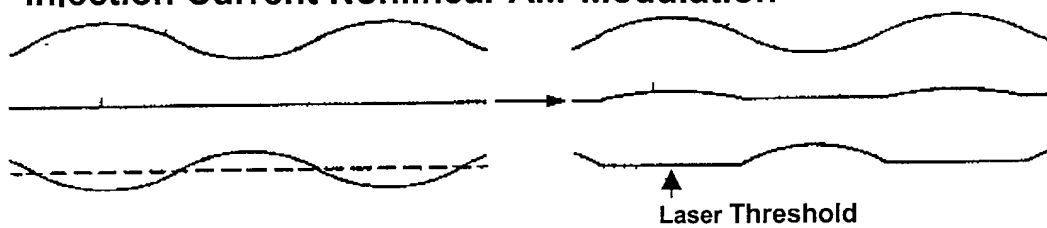


FIG. 50

### Injection Current Nonlinear AM Modulation



### Injection Current Linear IM Modulation

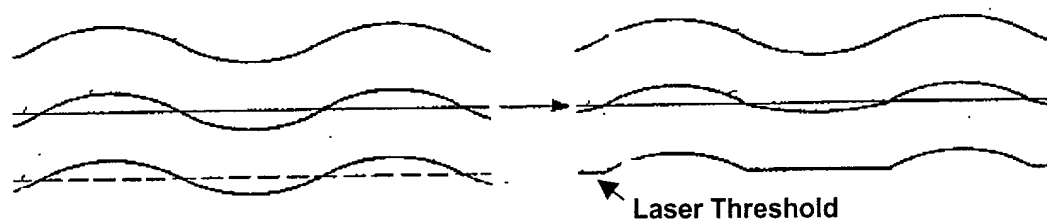


FIG. 51



# Injection Current Linear IM Modulation

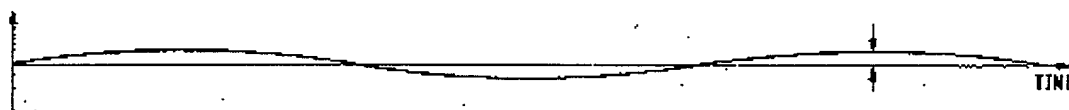
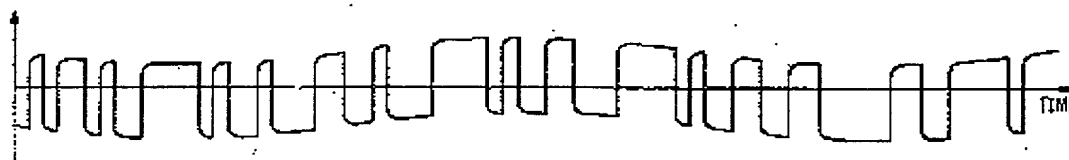


FIG. 52

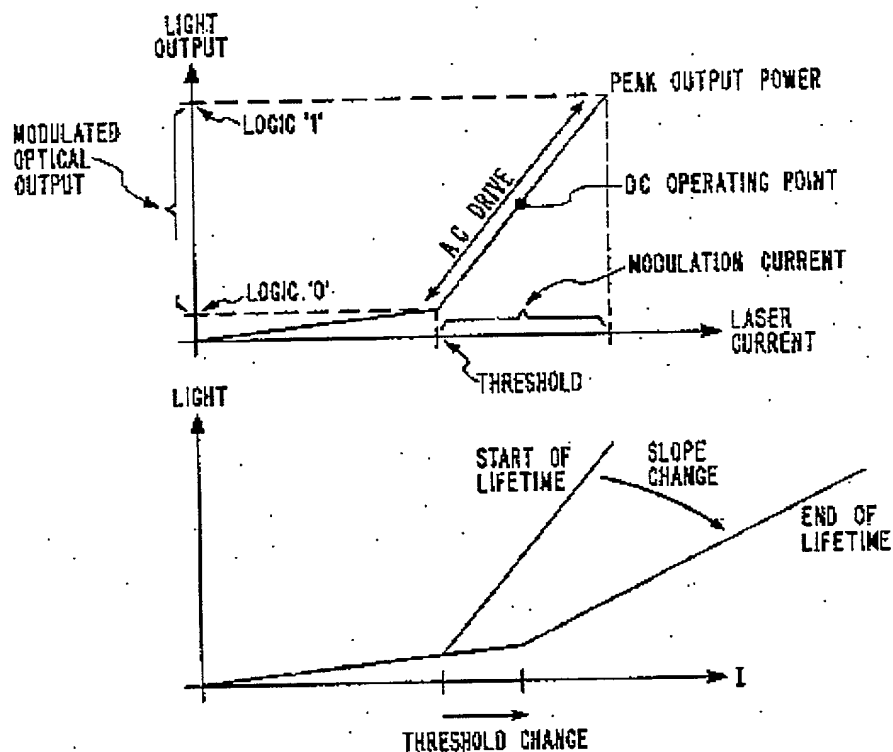


FIG. 53



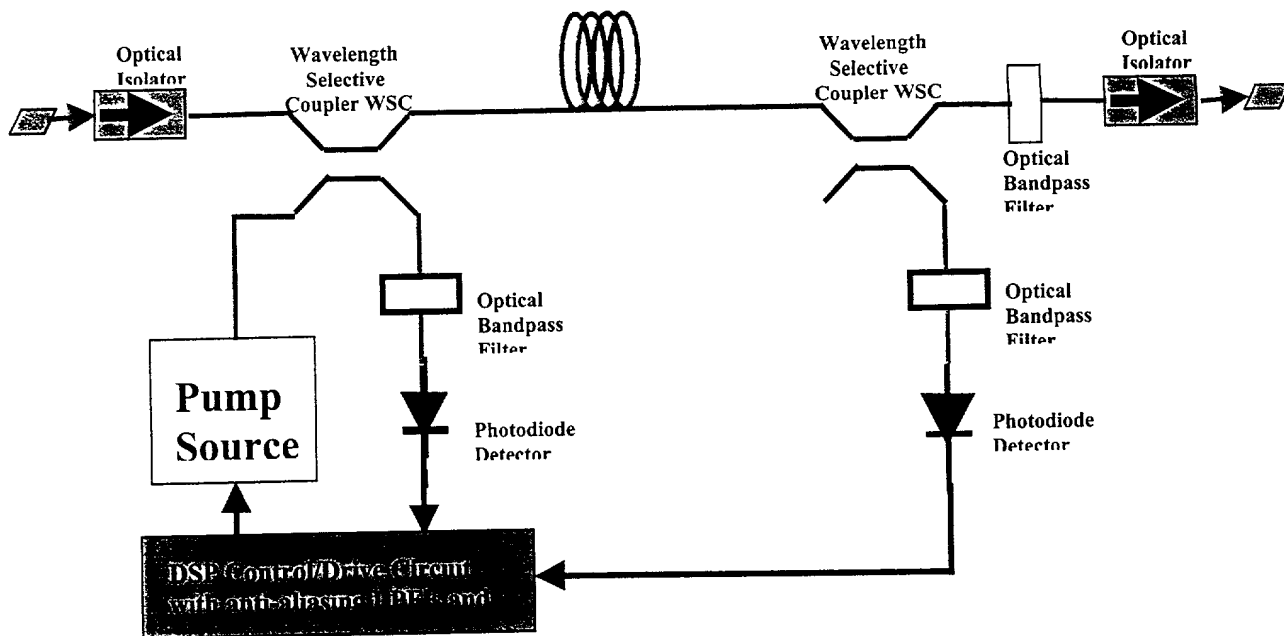


FIG. 55

FIG. 55

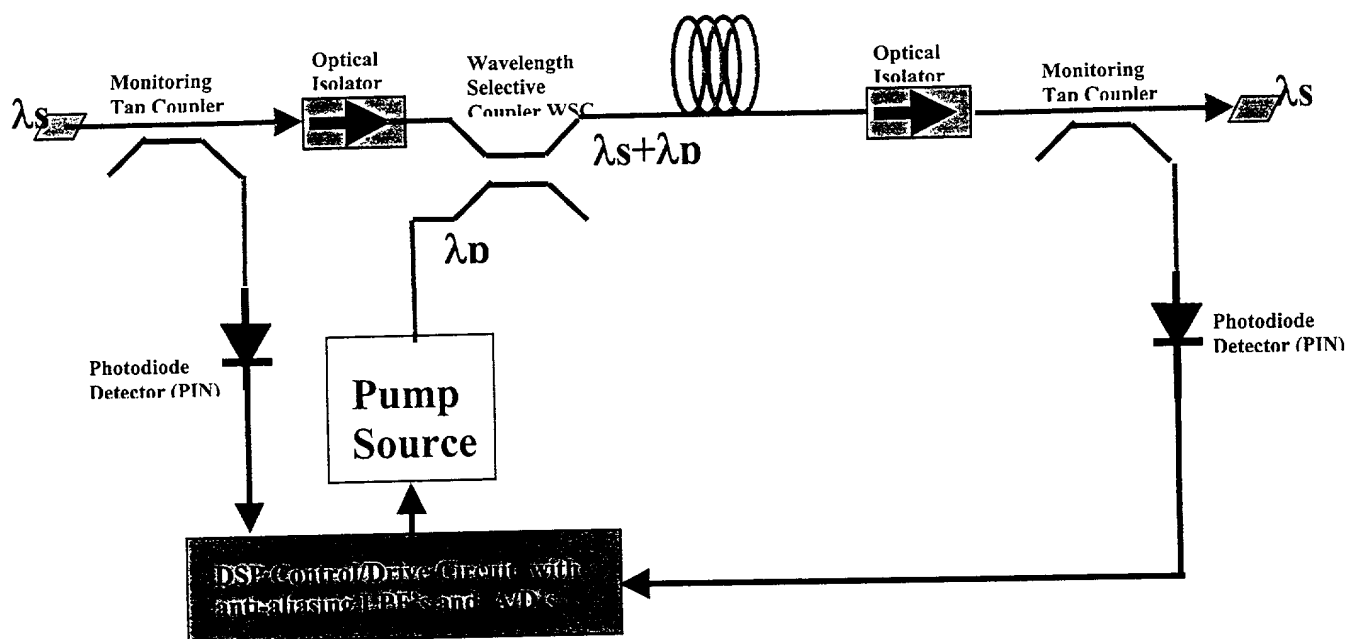


FIG. 56

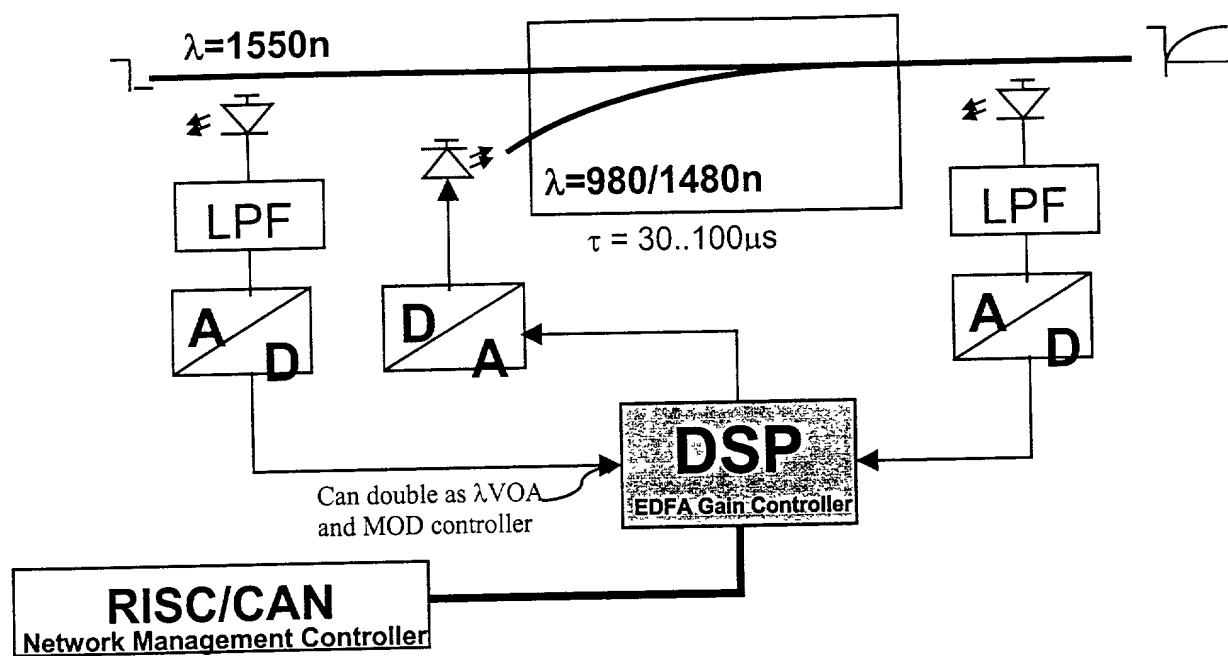


FIG. 57